

CLAIMS

5 *Sub P3* 1. A front end structure of an automotive vehicle comprising a front end panel having assembled thereon vehicle front end parts including at least a radiator for cooling the engine cooling water and a heat exchanger for cooling the refrigerant circulating in a vapor compression-type refrigerator,

10 wherein the radiator and the heat exchanger are arranged in series with the air flow and fixed to the front end panel, and

15 wherein said front end panel includes an inlet opening for introducing air into an engine compartment and a duct structure for preventing the air introduced from the inlet opening from bypassing the radiator and the heat exchanger, and

20 the front end structure further comprising a fan unit arranged upstream of the radiator and the heat exchanger along the air flow for blowing the air toward the radiator and the heat exchanger.

25 2. A front end structure according to claim 1, wherein said front end panel is integrally formed by resin and fixed to a vehicle body at the vehicle front end portion thereby to constitute a vehicle structural member.

30 3. A front end structure according to claim 1, wherein said front end panel is integrally formed with a first air path for leading the air that has passed through said radiator into the engine compartment, and a second air path for leading the air that has passed through said radiator out of the engine compartment.

35 *Sub P3* 4. A front end structure of an automotive vehicle comprising a front end panel having assembled thereon vehicle front end parts including at least a radiator for cooling the engine cooling water and a heat exchanger for cooling the refrigerant circulating in a compression-type refrigerator,

wherein the radiator and the heat

Front Unit
exchanger are arranged in series with the air flow and fixed to the front end panel,

5 wherein said front end panel includes an inlet opening for introducing air into the engine compartment, and

10 wherein the radiator and the heat exchanger are integrated with each other through a duct structural member for preventing the air introduced from the inlet opening from bypassing the radiator and the heat exchanger,

15 the front end structure further comprising a fan unit arranged upstream of the radiator and the heat exchanger along the air flow for blowing air toward the radiator and the heat exchanger.

20 5. A front end structure according to claim 4, wherein said front end panel is integrally formed by resin, and fixed to a vehicle body at the vehicle front end portion thereby to constitute a vehicle structural member.

25 6. A front end structure according to claim 4, wherein said front end panel is integrally formed with a first air path for leading the air that has passed through said radiator into the engine compartment, and a second air path for leading the air that has passed through said radiator out of the engine compartment.

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